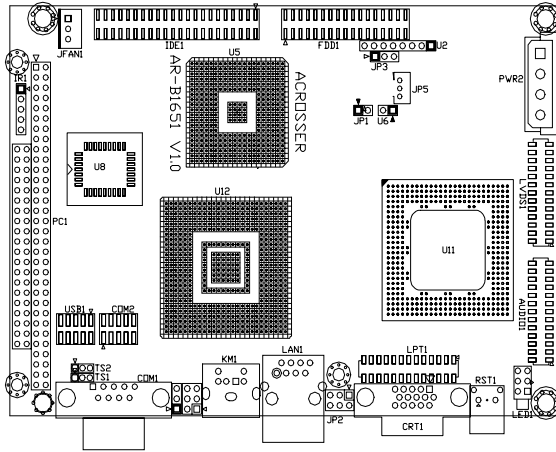# AR-B1651 MANUAL

Version 1.0

1. SETTING UP THE SYSTEM

1.1 PACKING LIST
- The quick setup manual
- 1 AR-B1651 CPU board
- 1 Hard disk drive adapter cable
- 1 Floppy disk drive adapter cable
- 1 Parallel port adapter cable mounted on one bracket
- 1 Software utility CD
- 1 RS-232 and PS/2 Mouse & Keyboard interface cable mounted on bracket

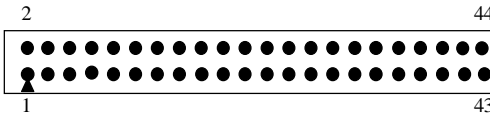## 1.2 KEYBOARD & MOUSE CONNECTOR (KM1)

KM1

1 KDT
2 MDT
3 GND
4 VCC
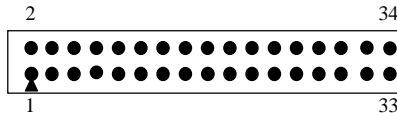5 KCLK
6 MCLK

Front View
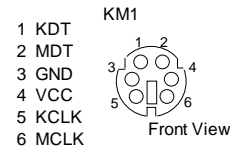
1.3 SDRAM SOCKET 144 PIN (DIMM1)

1.4 HARD DISK (IDE) CONNECTOR (IDE1)
※ 44 Pin Hard Disk Connector

2 ... 44
1 ... 43

1.5 FDD PORT CONNECTOR (FDD1)
※ 34 Pin Floppy Connector

2 ... 34
1 ... 33

1.6 PARALLEL PORT CONNECTOR 1 (LPT1)

2 ... 26
1 ... 25

Parallel Port Connector

1.7 CRT CONNECTOR (CRT1)

CRT1

1 Red
2 Green
3 Blue
4,11 N.C
5&10 Ground
6,7&8 AGND
9 VCC
12 SDA
13 Horizontal Sync
14 vertical Sync
15 SCL

1.8 USB CONNECTOR (USB1)

1.VCC1	5.DATA1+
2.VCC2	6.DATA2+
3.DATA1-	7.8.GND
4.DATA2-	9.10.GND
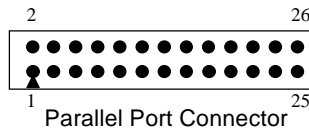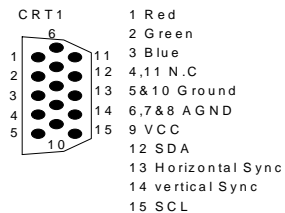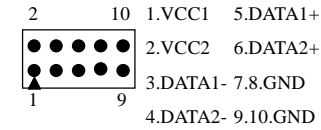
1.9 LVDS HEADER (LVDS1)

14 ... 26
1 ... 13
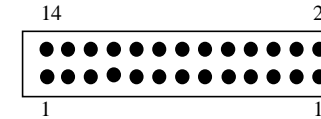
PIN (LVDS1)	FUNCTION	PIN (LVDS1)	FUNCTION
1	TXOUT0-	14	GND
2	TXOUT0+	15	GND
3	TXOUT1-	16	VTX5
4	TXOUT1+	17	VTX5
5	TXOUT2-	18	NC
6	TXOUT2+	19	GND
7	TXCLK-	20	GND
8	TXCLK+	21	VTX12
9	TXOUT3-	22	VTX12
10	TXOUT3+	23	GND
11	VTKBP	24	NC
12	VTX5	25	NC
13	VTX5	26	NC

1.10 LVDS VOLTAGE SELECT (JP2)

JP2

1 ○○ 2
3 ○○ 4
5 ○○ 6
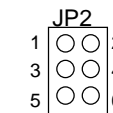
JUMPER	VOLTAGE	NOTE
1-3 ON 2-4 ON	VCC	
3-5 ON 4-6 ON	VCC3	Factory Preset

1.11 PANEL BACKLIGHT CONNECTOR (JP5)

JP5

1. +12V
2. GND
3. Enable Panel Backlight
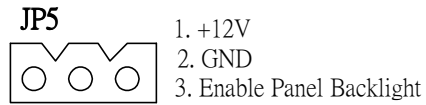
1.12 COM1
- USED RS232 & RS485

COM1

1
2
3
4
5
6
7
8
9

P1   P2
9   7
6   4
3   1

RS-485
Factory Preset

P1   P2
9   7
6   4
3   1

RS-232

1.13 COM2
- Only RS232

9   1
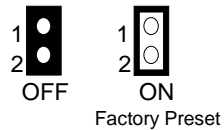10   2

1.DCD   5.TX
2.DSR   6.CTS
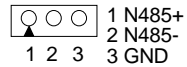3.RX   7.DTR
4.RTS   8.RI
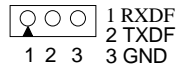   9.GND
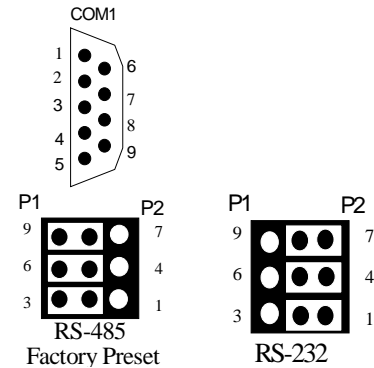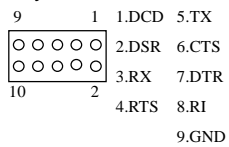
1.14 RS-485 TERMINATOR SELECT (JP1)
When there is only one line the setting should be left off, if multiple blocks are used on a single line this should be set to "ON" in order to properly terminate the connection for better transmission of data

1
2
OFF

1
2
ON
Factory Preset

1.15 RS-485 HEADER (JP3)

1 2 3

1 N485+
2 N485-
3 GND

1.16 TOUCH SCREEN CONNECTOR (TS2)

1 2 3

1 RXDF
2 TXDF
3 GND

1.17 26-PIN AUDIO CONNECTOR (AUDIO1)

1   25
2   26

PIN	Signal	PIN	Signal
1	AUXAL	2	LINEL
3	AUXAR	4	LINER
5	VCC	6	Not Used
7	AUDIOL	8	MICPH
9	AUDIOR	10	PCSPKO
11	GND	12	GND
13	Not Used	14	Not Used
15	GND	16	GND
17	Not Used	18	Not Used
19	Not Used	20	Not Used
21	Not Used	22	Not Used
23	Not Used	24	Not Used
25	GND	26	GND

Note: the connector does not contain the GAME (MIDI) port signal. When AR-B1651 audio card is used with this CPU board, the GAME port function is not supported.
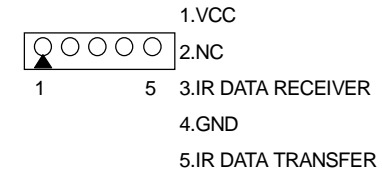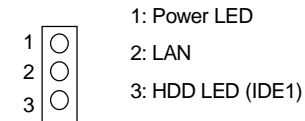
1.18 CPU FAN POWER CONNECTOR (JFAN1)

3   2   1

1. GND
2. +12V
3. Fan Speed
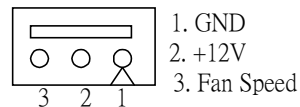
1.19 EXTERNAL BUZZER (U6)

1 2

1 +
2 -
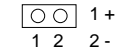
1.20 INFRARED CONNECTOR (IR1)

1   5

1.VCC
2.NC
3.IR DATA RECEIVER
4.GND
5.IR DATA TRANSFER

1.21 LED(J1)

1
2
3

1: Power LED
2: LAN
3: HDD LED (IDE1)

1.22 NETWORK SETTING
- RJ-45 CONNECTOR (LAN1)

8   1
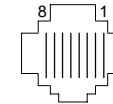
PIN	FUNCTION
1	TPTX+
2	TPTX -
3	TPRX+
4	Not Used
5	Not Used
6	TPRX -
7	Not Used
8	Not Used

1.23 RESET BUTTON (RST1)

SW
1   2
SW PUSHBUTTON
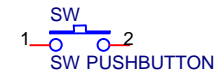
1.24 POWER CONNECTOR (PWR2)

PWR2

1. +12V
2. GND
3. GND
4. +5V

4 3 2 1
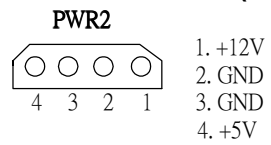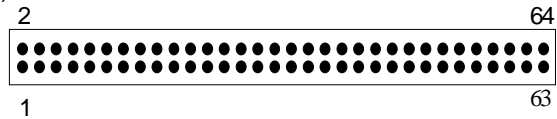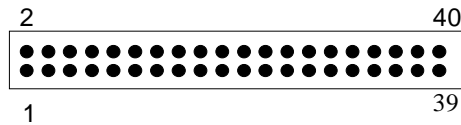
1.25 PC/104 CONNECTOR (PC1)
(1) 64 Pin PC/104 Connector A&B

2   64

1   63

(2) 40 Pin PC/104 Connector C&D

2   40

1   39

Note:
If the content in setting is inconsistent with the
CD-ROM, please refer to the setting as the priority.